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AB - J06279376 Prepn. of N-(alpha-alkoxyethyl)formamide(s) (I) comprises
(1) reaction of N-(alpha-hydroxyethyl)formamide (II) with excess
alcohol(s) (III) in presence of acid catalyst, (2) recovering
unreacted (III) from the reaction mixt., (3) dehydration of (III)
recovered to lower water content below 15%, and, (4) feeding (III)
regenerated as (a part of) material to process (1).

- USE/ADVANTAGE - (I) is useful as material for prepn. of
N-vinylformamide. Prepn. of (I) comprising processes (1), (2) and (4)
is known already, but (I) is obtd. in higher and more steady yield
than prior arts by addition of process (3) to former procedure. Pref.
(II) is prepd. by reaction of formamide with formaldehyde and
acetaldehyde in presence of base catalyst (e.g. sodium- or
potassium-(bi)carbonate). (II) is reacted with 1:1-50 (pref. 2-30)
mol-fold (III) (pref. 1-4C prim.- or sec.-alcohol(s)) in presence of
0.1-5 mol% acid catalyst, (e.g. sulphuric acid, phosphoric acid etc.)
at -10 deg.C to 60 deg.C (pref. 0-40 deg.C). Excess (III) is recovered
by distn., fractionated to remove water, water content in (III)
regenerated is adjusted to 0.5-10 wt.%. (III) regenerated is fed to
process (1) as (a part of) material to become 60-95 mol% of (III) fed
to process (1). (Dwg. 0/0)

CN - 9444-D3801-P

IW - N ALPHA ALKOXYETHYL FORMAMIDE PREPARATION REACT N ALPHA HYDROXYETHYL
FORMAMIDE ALCOHOL PRESENCE ACID CATALYST PREPARATION N VINYL FORMAMIDE

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FORMAMIDE ALCOHOL PRESENCE ACID CATALYST PREPARATION N VINYL FORMAMIDE

NC - 001

OPD - 1993-03-29

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TI - N-(alpha-alkoxyethyl)formamide prepn. - by reaction of
N-(alpha-hydroxyethyl)formamide with alcohol in presence of acid
catalyst, used to prepare N-vinyl-formamide

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